केंद्रीय विद्यालय संगठन KENDRIYA VIDYALAYA SANGATHATN
Learner Achievement Test (SLATE)-2018
Class- VIII

TIME:1 H 40 min   **M.M : 100**

NAME: _____CLASS & SEC _____ ROLL _____DATE: _____

INSTRUCTIONS:
1. सभी बहुविकल्पीय प्रश्न हैं। All questions are 'Multiple Choice Questions'.
2. सभी प्रश्न अवनियन हैं। All questions are compulsory.
3. केवल एक ही विकल्प सही है। Only one option is correct.
4. केवल सही उत्तर पर)√) का वनशान लगाएँ।Only tick mark (√) the correct answer.
5. प्रत्येक प्रश्न 01 अंक का है। Each questions carries 01 mark.

SUBJECT	ENGLISH(25)	MATHS (25)	SCIENCE (25)	SOCIAL SCIENCE (25)	TOTAL (100)
MARKS OBTAINED					

PART- I [ENGLISH]

Instruction for Question 1-10: Choose the most suitable option on the basis of the passage given below.

1. Oliver Twist' is a landmark novel by Charles Dickens.
2. Oliver was an orphan boy
3. who grew up in acute poverty in England.
4. Oliver was born in a workhouse where he suffered cruelty of starvation.
5. The workhouse officials were are miser and cruel.
6. They didn't provide the resedents with enough food.
7. Oliver as sold by workhouse oficials into apprenticeship
8. Oliver escaped from there and
9. reached London to seek for a better life.
10. Towards the end of the story, Oliver gets his reward for struggle.

1. Landmark in line 1 means -

   A. important site   B. turning point   C. reputed   D. important

2. Oliver was an orphan, because -

   A. he had no parents   B. he was poor   C. he was illiterate   D. he had no home

3. What does acute in line 3 mean?

   A. mild   B. temporary   C. long lasting   D. severe

4. Which of the following could best replace starvation in line 4?

   A. famine   B. extreme hunger   C. abundance   D. under nourished

5. Which of the following is opposite in meaning to miser in line 5?

   A. kind   B. sensitive   C. generous   D. donor

6. Which of the following is the correct spelling of the underlined word in line 6?

   A. residents   B. risidents   C. residants   D. resedants

7. Which of the following is the correct spelling of the underlined word in line 7?

   A. officials   B. officials   C. ofiicials   D. offiicials

8. Which of the following is closest in meaning to escape in line 8?

   A. run away   B. travelled   C. fought   D. look for

9. Seek in line 9 means –

   A. desire of   B. wish   C. search for   D. dream

10. Which of the following is opposite to reward in line 10?

   A. hatred   B. punishment C. prize   D. return

Instruction for Question 11-25: There are three passages in this section. Each passage is followed by 2-10 questions. Answer the questions on the basis of the passage.

Arachne the Weaver

In ancient times, Greece was full of mythological stories that taught people important life lessons. Once such story is the story of Arachne. Arachne was a young girl famous for her weaving. The cloth she wove was softer than silk and lighter than air. Her excellent skills made Arachne proud. One day, an old woman walked up to Arachne and asked her, "Pray tell me, from whom did you learn to weave so beautifully?" Arachne replied arrogantly, "No one taught me to weave. I am naturally good at it." The old woman said, "Perhaps Athena, the goddess of craft and wisdom, taught you to weave?" Arachne replied, " No one taught me. I am better than Athena at weaving." The old woman then removed her disguise. She was none other than Athena herself. She was angry that a common girl thought herself better than Athena. The goddess challenged Arachne to a weaving contest. She asked Zeus, the King of gods to be the judge of who wove a better tapestry. It was decided that whoever lost, would never weave again. Arachne wove a cloth from the finest silk. On the cloth she wove the weaknesses of the gods, and their foolish and immoral actions. Athena, however, wove a cloth that showed the splendid achievements of the gods and praised them for their powers. Clearly Athena won, as her tapestry surpassed any other in skill and beauty. Poor Arachne was devastated, as she could now never weave again. Athena took pity on her. She turned Arachne into a spider so she could continue to weave. Arachne paid heavily for her vanity and arrogance. And therefore, according to Greek mythology, spiders are believed to be Arachne's children.

*tapestry – a piece of fabric with pictures or designs formed by weaving colourful threads

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11. According to the story, Arachne was –

A. Sweet and kind   B. Humble and quiet C. Proud and rude   D. Clever and tricky

12. Athena disguise herself as an old lady because -

A. people did not like her.   B. she wanted to test Arac hne.

C. she wanted to learn weaving from Arachne.   D. she wanted to challenge Arachne.

13. Why did Athena challenge Arachne?

A. She was angry at Arachne's arrogance.   B. To impress Zeus, the King of Gods.

C. To prove herself the best weaver.   D. To test her own weaving skills.

14. Why was Arachne devastated?

A. Zeus had not liked the cloth woven by her   B. The old lady turned out to be goddess Ath ena

C. She would not be able to weave again in life   D. She lost her fame as the best weaver

15. What message does Arachne's story convey?

A. Don't take a challenge given by a goddess.   B. Gods and goddesses can take any form.

C. Keep your talents secret.   D. Pride comes before a fall .

16. Based on the story, spiders –

A. can weave clothes   B. cannot weave   C. are related to insects D. are carnivorous

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Busy Bees
Honeybees are social insects that live in colonies called hives. They build hives to store food and lay eggs. There are three types of bees in each colony –the worker bees, the drones and a queen bee.The workers are young female bees. They collect nectar and pollen, build hives and keep them clean, and look after the larvae too. They also help maintain the temperature of the hive by beating their wings. Worker bees can travel up to eight miles to get nectar and pollen. The worker bees sting if they find a danger to the hives. A bee will rarely sting if it is far away from the hive, unless it senses danger. Drones are male bees that live in the hive. They do not collect nectar or build hives. Their only job is to mate with the queen. Hundreds of drone bees live in the hive during summer. When winter arrives and food is limited and survival is threatened, the drones are thrown out of the hive. The queen bee is the single, largest bee in the hive. Her only job is to lay eggs. She is the only fertile bee in the hive. A queen bee can lay upto 2500 eggs a day. When the old queen's time is almost over, some larvae are put into special cells to grow into the new queen. They are fed with the 'royal jelly' to provide them with the nutrition required to be the fertile queen. As soon as the female bee develops into a queen bee, she kills the other prospective queen bees.

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17. The passage is a description of the -

   A. life-cycle of a honeybee   B. importance of honeybee s

   C. social structure of the hon eybees   D. development of the queen bee

18. Honeybees are called 'social insects' because they –

A. live in colonies and have distinct social duties. B. travel long distances to collect food and pollen .

C. have different types of bees.   D. lay millions of eggs every yea r.

19. In case of an attack on the hive, which bee takes charge?

   A. The queen bee   B. The drone bee   C. The male bee   D. The worker be e

20. Why does the new queen bee kill other prospective queen bees?

   A. To get more space in the cell.   B. To remove the competition.

   C. To get to eat more royal jell y.   D. To have the space for more eg gs.

21. According to the passage, which bee is the busiest?

   A. The male bee   B. The worker bee   C. The queen bee   D. The drone

22. All of the following is true about the Queen bee, except-

   A. only one in a hive   B. lays eggs   C. has acces s to royal jelly   D. most powerful

23. On what criteria, bees are of three categories?

   A. size   B. strength   C. colour   D. work

The Amazing Rainforests

Rainforests are tall, dense, thick jungles located near the equator. They are so called because it rains in these forests throughout the year. The climate in a rainforest is very hot and humid. There is, therefore, a wide variety of plant and animal life in this area. A rainforest has four layers of trees. The topmost layer is called the 'Emergent layer'. This layer consists of very tall trees that are about 200 feet tall. These trees have broad, mushroom-like crowns. These trees receive lots of sunlight but are also exposed to high temperatures and strong winds. Animals like eagles, monkeys, bats and butterflies are found in this layer of the forest. The second layer is the 'Canopy layer'. The trees in this layer are 60-90 feet tall – almost as tall as an eight-storey building - and they form a sort of roof over the rest of the trees and other plants that grow there. The trees have oval leaves with pointed ends. These trees grow very close together and there is plenty of food, so they are home to a number of animals like tree frogs,snakes and monkeys.

The third layer is the 'Under-storey'. The area is quite dark as little sunshine reaches here. Hence the plants in this layer have large leaves so that they can receive more sunlight. Usually, the plants are about 12 feet high. Leopards and jaguars are commonly found in this area.

The last layer is the 'Forest floor'. It is very dark and humid here. Hence no plants grow in this layer. This layer consists almost entirely of fallen leaves, fruits, and flowers, all of which decay quickly on the forest floor. Giant anteaters, tigers, and elephants live in this area.

24. The main purpose of the passage is to –

A. Describe the layers of rainforest   B. Describe different trees of the ra inforest

C. Describe the climate of rainforest   D. Describe rainforests

25. The layer that gets the most sunlight is called the -

A. Emergent layer   B. Canopy layer   C. Understorey layer   D. Forest floor

PART- II [MATHEMATICS]

1. Which of the following is the next rational number to zero on the number line?

   A. $\frac{1}{1000}$ B. $\frac{1}{100000}$ C. 1   D. Can't be determined

2. Which group of real numbers does NOT contain the number 1?

A. Integers   B. Irrational number   C. Rational Number   D. Whole number

3. Multiplicative inverse of $\left(\frac{-2}{3}\right)^3 = [\ ]$

A. $\left(\frac{2}{3}\right)^3$ B. $\left(\frac{3}{2}\right)^3$ C. $\left(\frac{-3}{2}\right)^3$ D. $\left(\frac{-1}{6}\right)^3$

4. Nived, Suman and Laxman are standing in a line. Neha's height is 6/5 of Suman's height. Suman's height is 5/8 of Laxman's height. If Laxman's height is 160 cm. What is Nived's height?

   A. 100 cm   B. 120 cm   C. 192 cm   D. 256 cm

5. Which of these numbers is the smallest?

A. 9.69×10^2 B. 7.23×10^5 C. 2.13×10^5 D. 1.13×10^6

6. How many natural numbers lie between
A. 30   B. 31 C. 32   D. 240

7. If x is a rational number lies between 0 and 1, which of the following statements is correct?

A. $x^3 < 0$ B. $x^3 < 1$ C. $x^3 < -1$ D. $x^3 > 1$

8. Which of the following is the greatest 6-digit number that is exactly divisible by 2, 3 and 7?
   A. 999998   B. 999999   C. 999996   D. 999978

9. Which of the following is the simplified form of |?24| ÷ 6 ?|?2| ?5 x 4 + 3?
   A. -15   B. -23   C. -14   D. -20

10. Which operation should be performed first to simplify the following?

$$22 - 6 \div (2)^3$$

A. Subtract 6 from 22   B. Divide 6 by 2   C. Find cube of 2   D. Multiply 2 with 3

11. What are the values of A and B in the given number statement?

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    4  2  5  8
+   5  1  B  4
─────────────
  A  4  2  2
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A. A = 10 and B =7   B. A = 9 and B =7   C. A = 9 and B =6   D. A = 10 and B =3

12. The product of two 2-digit numbers is 195. The product of their ones digits is 15 and that of their tens digits is 1. What are the numbers?
       A. 13 and 15   B. 65 and 03   C. 39 and 05   D. 31 and 51

13. Which of the following is a perfect square?
       A. 1   B. 5   C. 15   D. 50

14. The melting point of hydrogen is -259 degree C and the melting point of oxygen is -218 degree C. How much more is the melting point of oxygen than the melting point of hydrogen?
       A. -41-degree C   B. 41-degree C   C. -477-degree C   D. 477-degree C

15. Which of the following list is in the order of smallest to largest?

A. $\frac{1}{3}, \frac{3}{5}, 30\%$ B. $\frac{3}{5}, \frac{1}{3}, 30\%$ C. $30\%, \frac{1}{3}, \frac{3}{5}$ D. $\frac{1}{3}, 30\%, \frac{3}{5}$

16. The cost of one shirt and one jeans is Rs 850 and Rs 1400 in a shop respectively. Ankit bought 5 jeans and 8 shirts from the shop. How much money did he pay to the shopkeeper?
       A. Rs 13,800   B. Rs 15,45   C. Rs 29,250   D. Rs 90,000

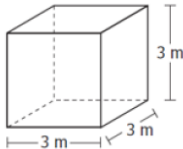17. Which of the following is the simplified form of following?

$$[100 - \{4 - (8 + 3 \times 2) - 5\}]$$

A. 85   B. 105   C. 115   D. 123

18. Ahmad mixed different amount of honey in water to make energizing drink. Which final mixture has the highest percentage of honey in water?
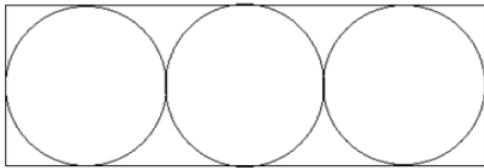A. 400 mL honey mixed with 600 mL water   B. 400 mL honey mixed with 400 mL water
C. 300 mL honey mixed with 600 mL water   D. 300 mL honey mixed with 400 mL water

19. What is the total surface area of the solid shown below?

A. 9 m²   B. 27 m²   C. 54 m²   D. 81 m²

20. What is the area of the rectangle given below if the area of each circle is 154 m2?

A. 588 m²   B. 392 m²   C. 294 m²   D. 147 m²

21. Three identical cubes are joined side by side. If the total surface area of the cube is 96 ft2, what is the total surface area of the formed cuboid?

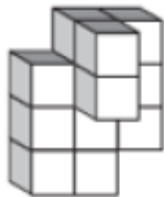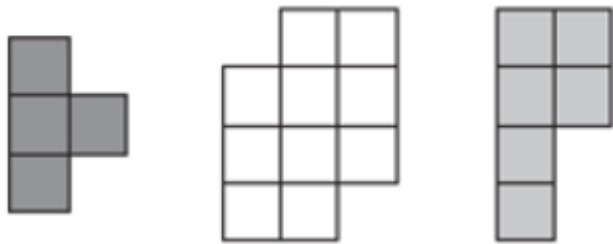A. 112 ft²   B. 224 ft²   C. 244 ft²   D. 288 ft²

22. In a village, there is a 25 m high cylindrical water tank with capacity of 3850 m3. Due to increase in population, there is need to increase the tank capacity to 4 times the current capacity. What would be the radius of the new cylindrical tank if the height remains the same?
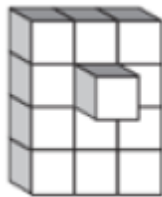
A. 7 m   B. 14 m   C. 25 m   D. 28 m

23. Meena rolled a rectangular sheet of length 44 cm and breadth 10 cm along its breadth to form a cylinder. What is the external surface area of the formed cylinder?

A. 440 cm   B. 220 cm   C. 154 cm   D. 77 cm
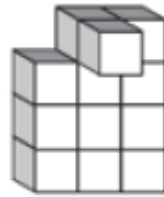
24. Given below are three different views of a solid figure made of different coloured cube. Which of the following could be the solid figure?
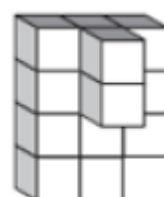

A.   B.   C.   D.

25. One of the parallel sides of a trapezium is longer than the other by 4 cm. Area of the trapezium is 100 cm2 and its height is 10 cm. What are the lengths of the two parallel sides?

A. 0.5 cm and 4.5 cm   B. 3 cm and 7 cm   C. 8 cm and 12 cm   D. 16 cm and 20 cm

PART- III [SCIENCE]

1. Which of the following is true about a leaf that appears red?
    A. It absorbs red light and reflects light of all other colours.
    B. It reflects red light and absorbs light of all other colours.
    C. It absorbs red light and reflects green light.
    D. It reflects red light and transmits green light.

2. Which of these best describes function of vacuole in plant cells?
  A. to store glucose formed during photosynthesis   B. to maintain shape and structure of cell
  C. to provide water to different parts of plants   D. to decompose glucose to produce energy

3. Given below are pairs of farming equipment and its use in farming process. Which pair is a wrong match?
    A. Hoe − winnowing   B. Drill − sowing   C. Sickle − harvesting   D. Sprinkler - irrigation

4. Which of the following is NOT an advantage of irrigation?
    A. keeps soil insects away   B. improves soil aeration
    C. dissolves nutrients in fertilizers   D. helps in germination of seeds

5. Which cell structures are found only in a plant cell?
    A. Cell wall, plastids   B. Cell wall, mitochondria
    C. Cell wall, cilia, vacuole   D. Cell wall, cytoplasm, vacuole

6. Copper loses its lustre when exposed to atmosphere due to -
        A. formation of rust   B. deposition of acid layer
        C. formation of oxide layer   D. deposition of carbonate

7. Which of the following is a polymer found in nature?

   A. Cellulose   B. Nylon   C. Plastic   D. Thermocoal

8. When an inflated balloon is rubbed with a cloth piece and pressed against a wall, it sticks to the wall. This force of attraction is an example of ◈

   A. Friction   B. Magnetic force   C. Electrostatic force   D. Gravitational force

9. The rise of a liquid in a dropper shown below, is due to –

   A. Fluid pressure   B. Atmospheric pressure   C. Gravitational pull   D. Property of rubber

10. Swimming pools appear shallower than they really are. Which light phenomenon could best explain it?
A. Reflection   B. Refraction   C. Rectilinear propagation   D. Scattering

11. Which of the following is the list of gases found in the atmosphere in increasing order of abundance?
   A. Nitrogen, oxygen, carbon dioxide   B. Oxygen, carbon dioxide, nitrogen
   C. Nitrogen, carbon dioxide, oxygen   D. Carbon dioxide, oxygen, nitrogen

12. Class 8 students were assigned a project to prepare compost. Students of different group collected following

Student Groups	Materials collected in garden pits
Group I	Dry leaves, vegetable peels, banana peels
Group II	Paper cups, biscuit wrapper, tissue paper
Group III	Tea leaves, Vegetable peels, waste bread
Group IV	Sand, fertiliser, earthworm

After one and half months, only two groups could get manure from their pits. The groups were -
A. I and II   B. I and III   C. II and III   D. II and IV

13. Which of the following sources of energy when used in car, does not produce carbon dioxide?
A. CNG   B. Petrol   C. Solar panel   D. Biodiesel

14. Mona listed following key words related with properties of sources of energy –
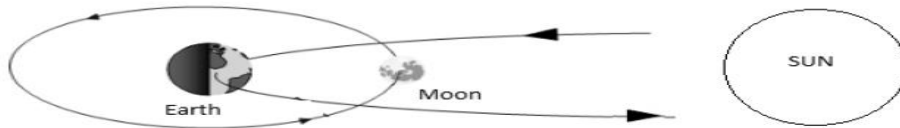   I. Non-exhaustible   II. Easily available   III. Cheap   IV. Renewable
Which of these meets the criteria listed by Mona?
   A. Nuclear power   B. Thermal energy   C. CNG   D. Biogas

15. In Northern Hemisphere, the Sun rises in South-east direction during winters. In which direction does Moon rise on a Full Moon Day in winters?
A. West   B. South-east   C. South west   D. North East

16. Which phenomenon could be best explained by the given diagram?

A. solar eclipse   B. lunar eclipse   C. formation of day and night   D. occurrence of seasons

17. Raveena wants to see if plants can grow when watered with X brand of cold drink. She noted down some options as following –
I. Take two different potted plants
 II. Take two same potted plants
III. Give equal quantity of water t o both plants
IV. Give water to one plant and the same amou nt of X cold drink to another plant
V. Put both plants under Sun
VI. Put one plant indoor, another under sun
Which set of options would provide Raveena desirable result?

 A. I, II, V   B. I, IV, VI   C. II, IV, V   D. II, IV, VI

18. Honey is rich source of energy. Energy stored in honey is finally released in cells by the process of
A. respiration   B. digestion   C. excretion   D. secretion

19. Which of the following structure provides protection for the embryo during development?
A. umbilical cord   B. ovary   C. amniotic sac   D. placenta

20. Which of the following describes the process of photosynthesis?
    A. using sunlight energy to make sugars
    B. release of energy by breaking down glucose
    C. storage of energy in the form of carbon dioxide
    D. producing water for transportation of food

21. In an electromagnet, a conductor is coiled around -
    A. a test tube   B. an iron nail   C. a roll of paper   D. a pencil cell

22. The table below shows average distance of these planets from the Sun.
Planet Av Distance from the Sun

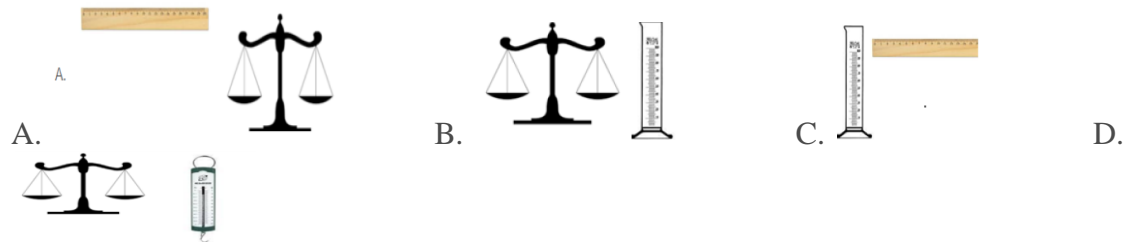| Planet	Av Distance from the Sun (million kilometres)
Earth	149.5
Jupiter	777.3
Mars	227.9
Mercury	57.9
Venus	108.2

Based on this table, which of these planets is most likely to be the hottest?
      A. Earth   B. Mars   C. Mercury   D. Jupiter

23. Which of the following could be explained by the refraction of light?
A. shadow formation   B. image in mirror
C. looking at birds sitting on a tree through window   D. viewing a coin at the bottom of a glass of water

24. Ritu wants to compare the mass and volumes of three objects. Which two instruments should be used?

A.   B.   C.   D.

25. A scientist recorded the growth in number of a microorganism for two hours.
What would be the number of microorganism after 2 hours?

A. 90   B. 100   C. 120   D. 160

PART- IV [SOCIAL SCIENCE]

1. Which is one of the main roles that the media play in Democracy?
   A. It restricts people from expressing their opinion.
   B. Media is the watchdog of democracy.
   C. It does not impact the social awareness about economic issues.
   D. It does not influence political, social and cultural scenario.

2. The third nearest planet to the Sun is -
   A. Venus   B. Earth   C. Mercury   D. Mars

3. "The Kalinga war brought about a change in Ashoka's attitude towards war." Which of the following explains the change?
   A. He adopted followed the Buddhist principles of compassion, non-violence and peace.
   B. He wanted to conquer more territories with his army and rule India.
   C. He expanded his territory beyond Magadh.
   D. He was against Dhamma Vijay.

4. Who discovered South America?
A. Ferdinand Magellan   B. Vasco-da-Gama C. Sir Francis Drake D. Christopher Columbus

5. The British India Company took over one after another state. Once they had an argument – they said they were "obliged by duty" to take over in order to free the people from the "misgovernment" of the Nawab.
Which of these kingdoms were annexed on the basis of misgovernment?
A. Punjab   B. Awadh   C. Satara   D. Bengal

6. Which of these pairs are not correctly matched?
   A. Trained soldiers on horses back – Sawars   B. Training in archery - Teerandazi
   C. Civil court - Diwani Adalat   D. Tipu Sultan - Portuguese explorer

7. The Champaran movement was against -
A. Industrialization   B. Synthetic dyes   C. Indigo plantation   D. Land acquisition

8. Several tribes were engaged in herding and rearing of animals. Which of these tribes moved with their herds of cattle and sheep, from one place to other?
A. Gujjars   B. Gonds   C. Santhals   D. Mundas

9. *The Revolt of 1857 was one of the first wars of Indian independence against the British. This revolt*
can be termed the first war of Indian independence against the British. Kings, peasants, tribals, landlords
and sepoys, all were dissatisfied with the British rule.
The soldier who was hanged to death for attacking his officer in Barrackpore Cantonment was.

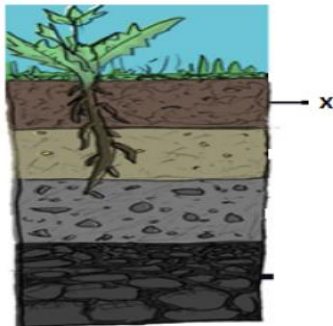A. Bhagat Singh   B. Mangal Pandey   C. Kanwar Singh   D. Bakht Khan

10. Which of these group of cities where listed as presidency cities?

A. Bombay, Orissa, Calcutta   B. Surat, Vishakhapatanam, and Calcutta
C. Delhi, Surat, Calcutta   D. Calcutta, Bombay, Madras

11. Which of the following is not an example of sustainable practice?

A. Keep lights switched off when not in use   B. Reuse and saving paper
C. Minimal use of coal and petroleum deposits   D. Cutting of trees

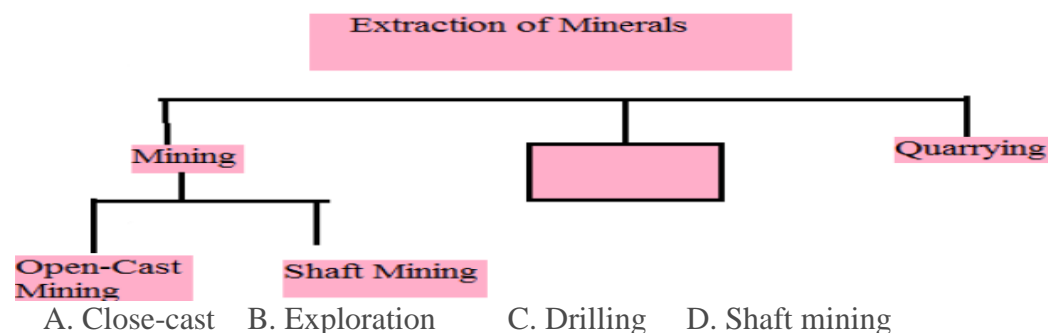12. The soil layer marked X in the profile is-

A. Organic Soil   B. Top Soil   C. Sub Soil   D. Parent Soil

13. "75% of earth's surface is covered with water still there is scarcity of drinking water. Most of the water is not fit for drinking as it is saline."
The sources of saline water on Earth are -

 A. Ocean   B. River   C. Freshwater lakes   D. Ground water

14. Which of the following would complete the flow chart?

  A. Close-cast   B. Exploration   C. Drilling   D. Shaft mining

15. Which of these economic activities is a primary activity?

A. Manufacturing wool   B. Selling grocery   C. Transport of goods   D. Rearing of animals

16. *Sedimentary rock formations of plains and young fold mountains contain non-metallic minerals.*
Which one of the following is not an example of non -metallic mineral?

A. Limestone deposits of Caucasus region of France   B. Manganese deposits of Georgia
C. Phosphate beds of Algeria   D. Copper and nickel deposits in Ontario, Canada,

17. Which of these nick-name combinations is not correct?

A. Coal-buried sunshine   B. Jute -yellow fiber   C. Petroleum-black gold   D. Paddy -rice

18. Which one of the following soils is best for cultivation of sugarcane and cotton?

A. Alluvial soil   B. Red soil   C. Laterite soil   D. Black soil
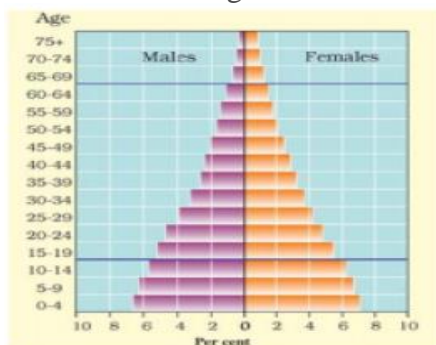
19. Which of these could be a raw material for marine based industry?
   A. Wood   B. Fishes and crabs   C. Silk and leather   D. Iron and Aluminum ore

20. Availability of which of the factors is NOT important to establish a steel industry?
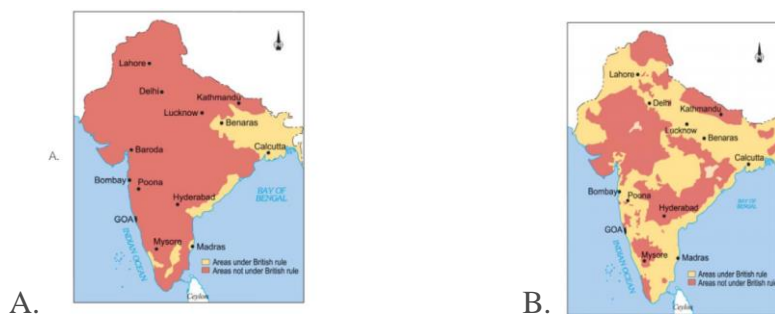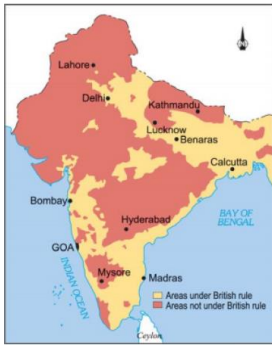   A. Iron ore   B. coal   C. Labor   D. Malls

21. Which of the given statements cannot be drawn from the population pyramid given below?

A. The total population is divided into various age groups, e.g., 5 to 9 years, 10 to 14 years.
B. The percentage of the total population, is subdivided into gender wise, in each age group.
C. In the age group of 70+ years, male population is higher than female.
D. Approximately 90% of births could reach till the age of adolescence.

22. Which of the following maps shows Maximum spread of British rule territory?

A.

B.

C.

D.

23. Which one of the tribe given below rebelled against the British?
A. The godhara   B. The Bhils   C. The Labadis   D. The Mundas

24. *. The British believed that Indian society had to be reformed. Various Laws were passed to*
promote reforms.
Which of the refo rms where not promoted by the British in 19th century?

A. Ban the practice of Sati   B. Ban the remarriage of widows
C. Law of Christianity conversion   D. Promotion of English-language education

25. Which of the following is NOT true about the events post 1857?
    A. Indian rulers were assured that their territory would never be annexed in future.
    B. It was decided to increase the proportion of Indian soldiers in the army.
    C. Indian rulers were allowed to pass on their kingdoms to their heirs, including adopted.
    D. The land and property of large number of Muslims was confiscated

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ANSWER KEY

ENGLISH	MATHS	SCIENCE	SOCIAL SCIENCE
1.	1.	1.	1.
2.	2.	2.	2.
3.	3.	3.	3.
4.	4.	4.	4.
5.	5.	5.	5.
6.	6.	6.	6.
7.	7.	7.	7.
8.	8.	8.	8.
9.	9.	9.	9.
10.	10.	10.	10.
11.	11.	11.	11.
12.	12.	12.	12.
13.	13.	13.	13.
14.	14.	14.	14.
15.	15.	15.	15.
16.	16.	16.	16.
17.	17.	17.	17.
18.	18.	18.	18.
19.	19.	19.	19.
20.	20.	20.	20.
21.	21.	21.	21.
22.	22.	22.	22.
23.	23.	23.	23.
24.	24.	24.	24.
25.	25.	25.	25.